

ABSTRACT OF THE DISCLOSURE

A method and system for cooperative resolution of statistical and other joint effects. The method and system include constructing controlled allocation games. Allocation patterns in a control game are used to determine value allocations in an allocation game. The method and system also includes approximating value functions for large cooperative games. The method and system may be used to construct statistical cooperative games and use cooperative game theory to resolve statistical joint effects in a variety of situations. The methods may be applicable to other types of joint effects problems such as those found in engineering, finance and other disciplines.